



OC12 ATM/SONET/SDH Single Mode to Multimode Fiber

F-SM-MM-06(xx) & SFMFF131x-21x Single Mode to Multimode Optical Mode Converter



- ▶ Link Pass Through
- ▶ Automatic Link Restoration
- ▶ Protocol Transparency

These converters offer an excellent upgrade path for networks. Today's Fast Ethernet applications can be upgraded to Gigabit speeds tomorrow with a simple SFP swap. The converter remains installed, managed and fully operational at any of these speeds.

Two SFP module slots allow for seamless connectivity between different wavelengths or fiber modes for speeds up to 1Gbps. Protocol independence allows for use in broad range of applications including Fast and Gigabit Ethernet, FDDI, ESCON, SONET OC-3, OC-12, OC-48 and Fibre Channel.

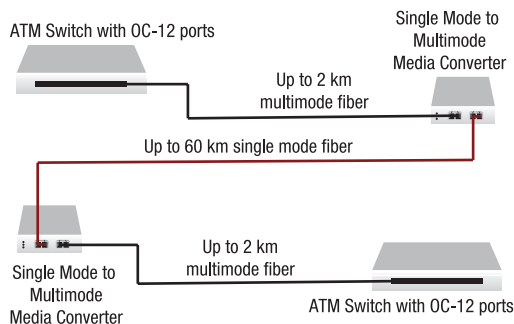
▶ Extend Network Distance

Convert multimode 622 Mbps interfaces to single mode fiber on a port-by-port basis and extend ATM or SONET over single mode fiber up to 60 km.

Use this optical mode converter to extend the reach of an ATM switch with a multimode port up to 60 km across single mode fiber.

Reduce the cost of an ATM/SONET deployment by purchasing ATM/SONET devices with lower cost multimode fiber interfaces and use an optical mode converter to introduce single mode fiber ports only where you need them.

Extend Network Distance



Specifications

Standards	ANSI T1.646, ITU G.957
Status LEDs	Power: Lit for normal operation MMF: Lit for active SMF: Lit for active
Dimensions	Width: 3.0" [76 mm] Depth: 4.7" [119 mm] Height: 1.0" [25 mm]
Power	External AC/DC required; 12V DC, .5A; unregulated; standard
Power Consumption	3.1 watts
Environment	0 – 50°C, 5% – 90% humidity (non-condensing), 0 – 10,000 feet
Shipping Weight	2 lbs. [0.90 kg]
Safety Compliance	Wall Mount Power Supply: UL Listed and CSA certified
Regulatory Compliance	CE Mark F-SM-MM-06: CISPR/EN55022 Class A; FCC Class A SFMFF131x-21x: CISPR/EN55022 Class A&B; FCC Class A&B
Warranty	Lifetime

Ordering Info

F-SM-MM-06

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 miles] Link Budget: 7.0 dB
to 622 Mbps fiber optic 1310nm SM (SC)
[15 km/9.3 mi.] Link Budget: 13.0 dB

F-SM-MM-06(XL)

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 miles] Link Budget: 7.0 dB
to 622 Mbps fiber optic 1310nm SM (SC)
[40 km/24.9 mi.] Link Budget: 26.0 dB

SFMFF1314-210

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 mi.] Link Budget: 7.0 dB
to 622 Mbps fiber optic 1310nm SM (SC)
[20 km/12.4 mi.] Link Budget: 11.0 dB

SFMFF1316-210

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 mi.] Link Budget: 7.0 dB
to 622 Mbps fiber optic 1310nm SM (SC)
[40 km/24.9 mi.] Link Budget: 25.0 dB

SFMFF1317-210

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 miles] Link Budget: 7.0 dB
to 622 Mbps 1550nm SM (SC)
[60 km/37.3 mi.] Link Budget: 25.0 dB

SFMFF1329-210

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 miles] Link Budget: 7.0 dB
to 622 Mbps 1310nm TX / 1550nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

SFMFF1329-211

622 Mbps fiber optic 1300nm MM (SC)
[2 km/1.2 miles] Link Budget: 7.0 dB
to 622 Mbps 1550nm TX / 1310nm RX single fiber SM (SC)
[20 km/12.4 mi.] Link Budget: 14.0 dB

Optional Accessories

(sold separately)

F-SM-MM-06(xx) or SFMFF131x-21x:

SPS-1872-SA

Wide Input (18 – 72VDC) Stand-Alone Power Supply

E-MCR-05

12-slot Media Converter Rack

RMS19-SA4-01

4-slot Media Converter Shelf

WMBD

DIN Rail Bracket 5.0" [127 mm]

WMBL

Wall Mount Bracket 4.0" [102 mm]

WMBV

Vertical Wall Mount Bracket 5.0" [127 mm]

F-SM-MM-06(xx):

SPS-1872-CC

Wide Input (18 – 72VDC) Piggy Back Power Supply

WMBD-FS

DIN Rail Bracket (flat, small) 3.1" [79 mm]

SFMFF131x-21x:

SPS-1872-PS

Wide Input (18 – 72VDC) Piggy Back Power Supply

WMBD-F

DIN Rail Bracket (flat) 3.3" [109 mm]